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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,391	02/15/2002	Nikolco S. Nikolovski	29385-69914	4154
23643	7590 04/14/2004		EXAMINER	
BARNES & THORNBURG			TRAN, LEN	
INDIANAPOLIS, IN 46204			ART UNIT	PAPER NUMBER
	,		1725	

DATE MAILED: 04/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)			
·		10/077,391	NIKOLOVSKI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Len Tran	1725			
Period fo	The MAILING DATE of this communicat or Reply	tion appears on the cover sheet	with the correspondence address			
A SHOTHE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of 31 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) do be period for reply is specified above, the maximum statuto the to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may atton. 19s, a reply within the statutory minimum of the period will apply and will expire SIX (6) Monday by statute. cause the application to become.	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	eation.		
Status						
1)⊠	Responsive to communication(s) filed of	on <u>05 February 2004</u> .				
2a) <u> </u>	This action is FINAL . 2b)					
3)□	to formal matters and to the morite in					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□ 8)□		withdrawn from consideration.				
Applicat	ion Papers					
10)	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to by) accepted or b) objected t in to the drawing(s) be held in abey e correction is required if the drawi	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.1			
Priority (under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa See the attached detailed Office action f	cuments have been received. cuments have been received in the priority documents have be I Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage	е		
2) Noti 3) Info	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTC rmation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date)-948) Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) 			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 5, 2004 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Strezov et al (US 5,701,948).

Strezov et al discloses a method of continuously casting a steel strip comprising the steps of providing a chilled casting surface, with a texture, with a casting pool of molten steel having a manganese content of no less than 0.6% by weight, silicon in the range of 0.1 to 0.35% by weight, carbon content less than 0.07% by weight (col. 7, lines 42-51). Strezov et al also discloses wherein the texture have surface distribution of between 5 to 100 peaks per mm square

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and average height of at least 10 microns to 20 microns (col. 3, lines 7-12), wherein the texture is randomly distributed, since Strezov et al disclose the average distribution.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strezov et al (US '948) as applied to claim 1 above, and further in view of Irie et al (US 4,368,084).

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Strezov et al disclose the claimed invention above, but fail to teach the strip are moving away from casting pool at 60 m/min to 75 m/min.

However, Irie et al disclose speed rate of the strip to be rolled at 60 min/m to 80 min/m for the purpose of increasing the productivity of metal strip.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide the speed as taught by Irie et al, in Strezov et al because increasing the productivity of the metal strip allows saving costs and time to the operation.

7. Claims 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strezov et al (US 5,701,948) in view of Irie et al (US 4,368,084) as applied in claim 9, in view of JP 08294751.

Strezov et al and Irie et al disclose the claimed invention substantially above, but fails to disclose casting surface defined by grit blasted substrate covered by protective coating.

JP '751 discloses casting surface formed by shot blasting or electroplated and covered by a protective coating, such as nickel and chromium for the purpose of providing a thin slab having a smooth surface.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide shot blasting or electroplating method and covered by a protective coating as taught by JP '751, in Strezov et al and Irie et al because a smooth surface on the slab is necessary as the final product.

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JP '751 discloses electroplating method, but fails to teach chemical deposition or electrodeposition method as how to apply the protective coating.

However, such method of applying the protective coating would have been obvious to one of ordinary skill in the art at the time applicant's invention was made, since electroplating, chemical deposition, or electrodeposition, were art recognized equivalents for applying the protective coating. Therefore, substituting any of these methods would have been an obvious design choice.

8. Claims 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strezov et al (US 5,701,948) in view of Irie et al (US 4,368,084) as applied in claim 9, in view of JP 08294751 in view of JP 58-29547.

in Strezov et al, Irie et al, and JP '751 disclose the claimed invention substantially above, but fails to disclose coating formed of nickel, chromium, molybdenum, and cobalt.

JP '547 discloses a coating formed of composition consisting of Co, Mo, and Cr, for the purpose of protecting the inner face of the mould.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide coating composition of JP '547, in Strezov et al, Irie et al, and JP '751 because this allow the inner face of the mold to be protected.

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Response to Arguments

7. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kiley Stones A4 1725 Len Tran
Examiner
Art Unit 1725

LT March 29, 2004